



## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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**Complete if Known**

Application Number	10/616,116
Filing Date	7/8/2003
First Named Inventor	Steven K. Stringer
Art Unit	3762
Examiner Name	Bianco, Patricia
Attorney Docket Number	CVN-011 CON

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
ELB		US- 3,701,433	10-31-1972	Krakauer et al.	
		US- 3,827,562	08-06-1974	Esmond	
		US- 4,056,476	11-01-1977	Mouwen et al.	
		US- 4,087,363	05-02-1978	Rosenmeyer et al.	
		US- 4,111,829	09-05-1978	Bimond et al.	
		US- 4,126,558	11-21-1978	Luceyk	
		US- 4,157,965	06-12-1979	Raible	
		US- 4,280,495	07-28-1981	Lampert	
		US- 4,283,289	08-11-1981	Meyst et al.	
		US- 4,319,580	03-16-1982	Colley et al.	
		US- 4,354,500	10-19-1982	Colley et al.	
		US- 4,354,501	10-19-1982	Colley et al.	
		US- 4,354,502	10-19-1982	Colley et al.	
		US- 4,401,566	08-30-1983	Igari et al.	
		US- 4,411,783	10-25-1983	Dickens et al.	
	US- 4,490,254	12-25-1984	Gordon et al.		
	US- 4,490,331	12-25-1984	Steg Jr.		
	US- 4,493,705	01-15-1985	Gordon et al.		
ELB		US- 4,572,724	02-25-1986	Rosenberg et al.	

[illegible]

Examiner Signature	<i>D. Brando</i>	Date Considered	5/25/05
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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CEB		US- 4,653,577	03-31-1987	Noda	
		US- 4,676,771	06-30-1987	Henske	
		US- 4,690,762	09-01-1987	Katsura	
		US- 4,698,207	10-06-1987	Bringham et al.	
		US- 4,747,826	05-31-1988	Sassano	
		US- 4,919,802	04-24-1990	Katsura	
		US- 4,923,438	05-08-1990	Vasconcellos et al.	
		US- 4,981,413	01-01-1991	Elonen et al.	
		US- 5,011,469	04-30-1991	Buckberg et al.	
		US- 5,017,103	05-21-1991	Dahl	
		US- 5,055,198	10-08-1991	Stettigar	
		US- 5,158,533	10-27-1992	Strauss et al.	
		US- 5,162,102	11-10-1992	Nogawa et al.	
		US- 5,188,604	02-23-1993	Orth	
		US- 5,205,153	04-27-1993	Hlavinka et al.	
		US- 5,266,265	11-30-1993	Raible	
		US- 5,270,005	12-14-1993	Raible	
		US- 5,334,309	08-02-1994	Huggett et al.	
CEB		US- 5,394,732	03-07-1995	Johnson et al.	

## FOREIGN PATENT DOCUMENTS

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Examiner Signature	<i>A. Brand</i>	Date Considered	5/25/05
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RLB		US- 5,445,613	08-29-1995	Orth	
		US- 5,503,801	04-02-1996	Brugger	
		US- 5,514,335	05-07-1996	Leonard et al.	
		US- 5,591,251	01-07-1997	Brugger	
		US- 5,632,894	05-27-1997	White et al.	
		US- 5,634,892	06-03-1997	Whalen	
		US- 5,651,765	07-29-1997	Haworth et al.	
		US- 5,746,575	05-05-1998	Westphal et al.	
		US- 5,762,684	06-09-1998	Hayashi et al.	
		US- 5,823,986	10-20-1998	Peterson	
		US- 5,840,068	11-24-1998	Cartledge	
		US- 5,863,179	01-26-1999	Westphal et al.	
		US- 5,876,611	03-02-1999	Shettigar	
		US- 5,899,873	05-04-1999	Jones et al.	
		US- 5,997,816	12-07-1999	McIntosh et al.	
	RLS		US- 6,017,493	01-25-2000	
		US- 6,206,632	03-27-2001	Gallus	
		US- 6,224,829	05-01-2001	Piplani et al.	
		US- 6,241,945	06-05-2001	Owen	

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner Signature	<i>[Signature]</i>	Date Considered	5/25/05
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of

5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Deb	✓	Matayoshi et al., "Development of a Completely Close Circuit Using an Air Filter in a Drainage Circuit for Minimally Invasive Cardiac Surgery," Artificial Organs 24(6): 454-458 (2000).	
	✓	Medtronic, "The Bio-Pump Centrifugal Blood Pump." (1998)	
	✓	Morita et al., "Closed Circuit Cardiopulmonary Bypass with Centrifugal Pump for Open-Heart Surgery: New Trial for Air Removal," Artificial Organs 24(6):442-445 (2000).	
	✓	Jorge Ojita, et al., "Assisted Venous Drainage Cardiopulmonary Bypass in Congenital Heart Surgery," Ann. Thorac. Surg., 71: 1267-72 (2001).	
	✓	Joseph J. Sistino et al., "Laboratory Evaluation of a Low Prime Closed Circuit Cardiopulmonary Bypass System," J.Extra-Corp. Tech., 24 (4): 116-119 (1993).	
	✓	Declaration of Jorge Ojito, Aug. 2003.	
Deb	✓	Declaration of Yehuda Tamari, Sep.4, 2003.	

Examiner Signature	<i>Patricia Bianco</i>	Date Considered	5/25/05
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